1. (Reiterated) An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:

a) an amino acid sequence selected from the group consisting of SEQ ID NO:1-8,

b) a naturally occurring amino acid sequence having at least 90% sequence identity to an amino acid sequence selected from the group consisting of SEQ ID NO:1-8,

c) a biologically active fragment of an amino acid sequence selected from the group consisting of SEQ ID NO:1-8, and

d) an immunogenic fragment of an amino acid sequence selected from the group consisting of SEQ ID NO:1-8.

2. (Reiterated) An isolated polypeptide of claim 1 selected from the group consisting of SEQ ID NO:1-8.

3. (Reiterated) An isolated polynucleotide encoding a polypeptide of claim 1.

4. (Once Amended) An isolated polynucleotide of claim 3 comprising a polynucleotide sequence selected from the group consisting of SEQ ID NO:9-16.

5. (Reiterated) A recombinant polynucleotide comprising a promoter sequence operably linked to a polynucleotide of claim 3.

6. (Reiterated) A cell transformed with a recombinant polynucleotide of claim 5.

7. (Reiterated) A transgenic organism comprising a recombinant polynucleotide of claim 5.

8. (Reiterated) A method for producing a polypeptide of claim 1, the method

comprising:

a) culturing a cell under conditions suitable for expression of the polypeptide, wherein said cell is transformed with a recombinant polynucleotide, and said recombinant polynucleotide comprises a promoter sequence operably linked to a polynucleotide encoding the polypeptide of claim 1, and

b) recovering the polypeptide so expressed.

9. (Reiterated) An isolated antibody which specifically binds to a polypeptide of claim 1.

10. (Reiterated) An isolated polynucleotide comprising a polynucleotide sequence selected from the group consisting of:

a) a polynucleotide sequence selected from the group consisting of SEQ ID NO:9-16,

b) a naturally occurring polynucleotide sequence having at least 70% sequence identity to a polynucleotide sequence selected from the group consisting of SEQ ID NO:9-16,

c) a polynucleotide sequence complementary to a),

d) a polynucleotide sequence complementary to b), and

e) an RNA equivalent of a)-d).

11. (Reiterated) An isolated polynucleotide comprising at least 60 contiguous nucleotides of a polynucleotide of claim 10.

12. (Reiterated) A method for detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 10, the method comprising:

a) hybridizing the sample with a probe comprising at least 16 contiguous nucleotides comprising a sequence complementary to said target polynucleotide in the sample, and which probe specifically hybridizes to said target polynucleotide, under conditions whereby a hybridization complex is formed between said probe and said target polynucleotide, and

b) detecting the presence or absence of said hybridization complex, and, optionally, if present, the amount thereof.

13. (Reiterated) A method of claim 12, wherein the probe comprises at least 30 contiguous nucleotides.

14. (Reiterated) A method of claim 12, wherein the probe comprises at least 60 contiguous nucleotides.

15. (Reiterated) A pharmaceutical composition comprising an effective amount of a polypeptide of claim 1 and a pharmaceutically acceptable excipient.

23. (Once Amended) A method of screening a compound for effectiveness in altering expression of a target polynucleotide, wherein said target polynucleotide comprises a sequence of claim 4, the method comprising:

a) exposing a sample comprising the target polynucleotide to a compound, under conditions suitable for the expression of the target polynucleotide,

b) detecting altered expression of the target polynucleotide, and

c) comparing the expression of the target polynucleotide in the presence of varying amounts of the compound and in the absence of the compound.

24. (New) An isolated polynucleotide encoding a polypeptide of claim 2.

25. (New) A method of claim 8, wherein the polypeptide comprises an amino acid sequence selected from the group consisting of SEQ ID NO:1-8.

26. (New) A method of detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 10, the method comprising:

a) amplifying said target polynucleotide or fragment thereof using polymerase chain reaction amplification, and

b) detecting the presence or absence of said amplified target polynucleotide or fragment thereof, and, optionally, if present, the amount thereof.

27. (New) A method of assessing toxicity of a test compound, the method comprising:

a) treating a biological sample containing nucleic acids with the test compound,

b) hybridizing the nucleic acids of the treated biological sample with a probe comprising at least 20 contiguous nucleotides of a polynucleotide of claim 10 under conditions whereby a specific hybridization complex is formed between said probe and a target polynucleotide in the biological sample, said target polynucleotide comprising a polynucleotide sequence of a polynucleotide of claim 10 or fragment thereof,

c) quantifying the amount of hybridization complex, and

d) comparing the amount of hybridization complex in the treated biological sample with the amount of hybridization complex in an untreated biological sample, wherein a difference in the amount of hybridization complex in the treated biological sample is indicative of toxicity of the test compound.

a3 Cont.

28. (New) A microarray wherein at least one element of the microarray is a polynucleotide of claim 14.

29. (New) A method of generating an expression profile of a sample which contains polynucleotides, the method comprising:

a) labeling the polynucleotides of the sample,

b) contacting the elements of the microarray of claim 28 with the labeled polynucleotides of the sample under conditions suitable for the formation of a hybridization complex, and

c) quantifying the expression of the polynucleotides in the sample.

a3 cont

30. (New) An array comprising different nucleotide molecules affixed in distinct physical locations on a solid substrate, wherein at least one of said nucleotide molecules comprises a first oligonucleotide or polynucleotide sequence specifically hybridizable with at least 30 contiguous nucleotides of a target polynucleotide, and wherein said target polynucleotide is a polynucleotide of claim 10.

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